

**then faced off on a lathe. The shaft was then turned to size. The shaft was threaded and also drilled for a 0.1250 cotter pin . The shaft was then turned to a press fit size with a shoulder as a seat and a weld bevel on the opposite end ( refer to fig. 4 drawing-axle shaft ).**

**The 1.5000 round stock was cut to nominal length. The stock was then faced off on a lathe. The shaft was then turned to size. The shaft was then threaded and drilled for a .01250 cotter pin. The shaft was then turned to a press fit with a shoulder seat and weld bevel on the opposite end ( refer to fig. 2 drawing- main swing arm shaft).**

**The last procedure was to quality control check all components, then press the three shaft components into the plate component with a 50 ton press and weld them from the back side ( refer to fig.00 drawing -system assembly).**

## **CLAIM**

**A swing arm system assembly that allows for the fitment of a motorcycle front wheel to be retrofitted to any motorcycle side car chassis or frame with an existing swing arm chassis design that currently utilizes a 13-inch diameter or less trailer or automotive lug type wheel.**